MSG From: ARCNET --ALMVMA To: IT32730 --VIMVMOA 12/21/94 02:33:56á
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----- SPACENEW USENET appended at 01:33:02 on 94/12/21 GMT (by USENET at ALMADEN)
Subject: First Electronic Call For Papers - SPIE's 1996 Optical SETI II Conference
From: skingsle@magnus.acs.ohio-state.edu (Stuart A. Kingsley)
Date: 20 Dec 1994 13:31:07 -0800
Organization: The Ohio State University
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This message is a brief version of a much larger message on the activities at The Columbus Optical SETI Observatory that was posted to various newsgroups over the past couple of days. The full message may be found in sci.astro, sci.astro.amateur, seti@mailbase.ac.uk and extraterrestrials@mailbase.ac.uk. This brief message contains only items (f) and (g).

Items in the larger message were:

(a) Justification for Professional and Amateur Optical SETI.

(b) Theory.

(c) Future improvements at the observatory.

(d) Arthur C Clarke's recent endorsement.

(e) Request for volunteers.

(f) SPIE's 1996 OSETI II Conference - first electronic call for papers.

(g) How to order the OSETI I Proceedings.

(h) SETIQuest.

(i) Further information on Optical SETI by the author.

OSETI II - FIRST ELECTRONIC CALL FOR PAPERS

If you would be interested in participating or just attending the next International Optical SETI Conference, please contact me. I will see to it that SPIE puts you on their program mailing list. Papers are requested on professional optical (visible and infrared) and microwave SETI, the relative merits of the microwave and optical approaches to SETI, choice of "magic" laser frequencies for cw and pulsed beacons, amateur optical SETI,

targeted list of stars, detecting pulsed and monochromatic laser beacons, free-space laser communications for deep space and interstellar links, signal processing and data storage for optical SETI, ETI laser modulation techniques, detection and decoding of wideband channels, generic demodulators for unknown ETI laser beacon and wideband channel modulation formats, the decoding problem, impact of optical SETI on conventional optical astronomy, detection and responding protocols, space law, and the science educational aspects of SETI.

The emphasis will be on the optical approach to SETI - about two thirds of the papers for this two-day conference will relate specifically to Optical SETI. Since the conference is more than a year away, you have time to get your own Optical SETI Observatory up and running, with the opportunity to report on your observatory design, and on any data you may have obtained.

The OSETI sessions will probably be held on Wednesday, January 31 and Thursday, February 1, 1996, respectively, after the associated Free-Space Laser Communications Conference VIII. Scientists and engineers attending the laser comms conference are encouraged to attend OSETI II. The registration fee covers attendance for all PHOTONICS WEST conferences. The formal (printed) first call for papers will be issued in February 1995 and the keynote speaker announced later in the year.

The Search for Extraterrestrial Intelligence
e Web (WWW) (SETI) in the Optical Spectrum

Second International Conference
Optical SETI II

Dr. Stuart A. Kingsley, Chair
The Columbus Optical SETI Observatory

Dr. Guillermo A. Lemarchand, Co-Chair
Centro de Estudios Avanzados - Universidad de Buenos Aires and
Instituto Argentino de Radioastronomia

SPIE (The International Society For Optical Engineering)
PHOTONICS WEST
(OE/LASE '96 Symposium)

January 29 - February 2, 1996
San Jose Convention Center, San Jose, California, USA

To give you an idea as to how expensive it will be to attend this conference, here is the list of conference registration fees for PHOTONICS WEST '95:

Regular Attendee/Full Week (One Proceedings)
Member = $400
Nonmember = $460

Author or Chair/Full Week (One Proceedings)
Member = $300
Nonmember = $350

One Day Only (No Proceedings included)
Member = $125
Nonmember = $145

Full-Time Student/Full Week (No Proceedings included)
Member = $85
Nonmember = $95

SPIE often runs half and one-day short courses to complement their conferences. These are helpful for people new to a discipline to get up to speed quickly. If you would be interested in attending and paying for such a course on Microwave and Optical SETI basics, please indicate in any response. A typical short course cost for members is about $150 for a half day to $275 for a full day. If sufficient interest is expressed, we may decide to arrange such a course on SETI.

HOW TO ORDER THE OSETI I PROCEEDINGS

The proceedings of the first Optical SETI conference on "The Search for Extraterrestrial Intelligence (SETI) in the Optical Spectrum" (Vol. 1867), is available from SPIE. The cost is $35 for SPIE Members and $46 for Nonmembers. Add sales tax on books if ordering from CA, WA or FL. Add shipping of 5% in N. America, or 10% if ordering from overseas. The proceedings contain 242 pages and 17 papers.

Editor: Stuart A. Kingsley, ETI Photonics

Partial contents: The NASA search for evidence of technological civilizations in space: project HRMS. Strategies for SETI target selection. Why Von Neumann interstellar probes could not exist: nonoptical reflections on modern analytic philosophy, bad arguments and unutilized data. Fundamental Factors affecting the optimum frequency range for SETI. The search for extraterrestrial intelligence (SETI) in the optical spectrum: a review. Superior utility of lasers for interstellar beacons, communications and travel. Radio and optical SETI from the southern hemisphere. Application of one measure of search merit to optical SETI. Large M-ary pulse position modulation and photon buckets for effective interstellar communications. Amateur optical SETI. Recent progress in deep space optical communications. (Plus six more papers).

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Merry Christmas and a Happy New Year
Stuart A. Kingsley

December 14, 1994
File: SPIE_1.TXT

Stuart

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